Date of Amendment: October 24, 2005 Date of Office Action: July 13, 2005

## In the claims:

Please amend the claims as follows:

1. (Currently Amended) A method of stimulating a subterranean formation, wherein the formation comprises an acid soluble component selected from the group consisting of calcium carbonate and calcium magnesium carbonate, the method comprising the steps of:

placing a fluid comprising water and a formate ester in the formation;

determining the appropriate amount of residence time for the formate ester in the fluid to react with the acid soluble component within the subterranean formation; and

permitting the fluid to react with the formation such that the permeability of a region of the formation is increased.

- 2. (Original) The method of claim 1 wherein the water and the formate ester react to produce an acid.
- 3. (Original) The method of claim 2 wherein the reaction between the water and the formate ester is delayed until the fluid has penetrated into a region of the subterranean formation to a desired extent.
- 4. (Original) The method of claim 3 wherein the formate ester is selected from the group consisting of:

ethylene glycol monoformate, ethylene glycol diformate, diethylene glycol diformate, glyceryl monoformate, glyceryl diformate, glyceryl triformate, triethylene glycol diformate and formate esters of pentaerythritol.

- 5. (Original) The method of claim 3 further comprising the step of placing an acid in the formation.
- 6. (Original) The method of claim 5 wherein the step of placing the acid in the formation is performed before the step of placing the fluid in the formation.

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7. (Original) The method of claim 5 wherein the step of placing the acid in the formation is performed after the step of placing the fluid in the formation.

- 8. (Original) The method of claim 6 wherein the acid is selected from the group consisting of hydrochloric acid and acetic acid.
- 9. (Original) The method of claim 3 wherein the step of placing the fluid in the formation comprises injecting the fluid into the formation at a pressure sufficient to create or extend a fracture within the formation.
- 10. (Original) The method of claim 3 further comprising the step of producing a hydrocarbon from the formation.
- 11. (Original) The method of claim 10 wherein the hydrocarbon is selected from the group consisting of oil and gas.
- 12. (Original) The method of claim 3 wherein the formate ester is present in the fluid in an amount in the range of from about 5% to about 65% by weight of the water therein.
- 13. (Original) The method of claim 3 wherein the fluid further comprises a fluid loss control additive, a de-emulsifier, an anti-sludging agent, a corrosion inhibitor, an iron control agent, or a mixture thereof.
- 14. (Original) The method of claim 13 wherein the fluid loss control additive comprises an aliphatic polyester, lactide, poly(lactide), poly(lactic acid), or a copolymer thereof.
  - 15. (Cancel)

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16. (Cancel)

17. (Original) The method of claim 13 wherein the fluid loss control additive is present in the fluid in an amount in the range of from about 0.1% to about 5% by weight of the fluid.

Claim 18. (Cancel)

Claim 19. (Cancel)

Claim 20. (Cancel)

Claim 21. (Cancel)

Claim 22. (Cancel)

Claim 23. (Cancel)

Claim 24. (New) A method of claim 1 wherein the step of determining the appropriate amount of residence time comprises: contacting a sample of the fluid with powdered calcium carbonate and following the kinetics of the reaction.

Claim 25. (New) A method of claim 24 wherein the step of contacting a sample of the fluid with powdered calcium carbonate is at the temperature of the subterranean formation.

Claim 26. (New) A method of claim 1 wherein the step of determining the appropriate amount of residence time comprises: monitoring the pH of a sample of the fluid.

Claim 27. (New) A method of claim 26 wherein the step of determining the appropriate amount of residence time further comprises: using the dissociation constant for

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formic acid to calculate the concentration of formic acid corresponding to a pH value.

Claim 28. (New) A method of claim 1 wherein the formate ester is present in the fluid in the range from about 10% to about 16% by weight of the water therein.

Claim 29. (New) A method of claim 28 wherein the step of placing the fluid in the formation further comprises: placing the fluid in a formation having a formation temperature of about 70°F to about 80°F.